

State of Indiana
Department of Natural Resources
Division of Water

Geodetic Control Data
Howard County

October 19, 1998

The layout, surveys, adjustments, and publication of the following level lines have been developed by the staff of the Indiana Flood Control and Water Resources Commission, and its successor agency, the Indiana Department of Natural Resources, Division of Water. The monumentation, field surveys, and adjustments were conducted between 1958 and 1998.

Filename: C:\HOWARDCOUNTY.DOC

INDIANA FLOOD CONTROL AND WATER RESOURCES COMMISSION

Indianapolis, Indiana

BENCH MARK DESCRIPTIONS

HOWARD COUNTY, INDIANA

The field work was done by the Indiana Flood Control and Water Resources Commission. All level lines were started from and closed on either First or Second Order bench marks established by the U. S. Coast and Geodetic Survey.

DATUM:

Elevations given in this list have been determined from standard elevations of U.S.C.&G.S. bench marks, based on the Sea-Level Datum of 1929.

INDIANA FLOOD CONTROL AND WATER RESOURCES COMMISSION
INDIANAPOLIS, INDIANA

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HOWARD COUNTY

May 27, 1958

The following elevations were determined in May 1958, by leveling from a U. S. Coast and Geodetic Survey bench mark on Wildcat Creek.

Second-order leveling were run by the three wire method, using invar-steel, yard rods. All level circuits were closed within allowable limits for second-order leveling.

All levels were adjusted to agree with the elevations of bench marks published by the U. S. Coast and Geodetic Survey whenever the adjustment required was within second-order limits between consecutive U.S.C.&G.S. bench marks.

All elevations in this line are based on the U.S.C.&G.S. Standard (adjusted) elevations for the following marks: W 114.

The U.S.C.&G.S.. standard (adjusted) elevation for W 114 is based on the Sea-Level Datum of 1929.

<u>Mark</u>		<u>Elevation Feet</u>
U.S.C.&G.S. W 114	In Howard County, about 2.1 miles due south of <u>Judson</u> , reached from New London by going 2.0 miles generally north along paved road from the school building at New London, at a steel bridge over Wildcat Creek, 0.2 mile south of a crossroad, set near the west end of the north concrete abutment of the bridge, 10.5 feet west of the center line of the road, 2 feet below the road, set in the top of the north concrete abutment, a standard USC&GS brass disk, stamped "W114, 1946."	741.557 Destroyed See USC&GS line #25/102 For a note see Docket #B551
TBM WC 50	In Howard County, about 2.0 miles north of <u>New London</u> , 2.0 miles generally north along a paved road from the school building in New London to a steel truss bridge over Wildcat Creek, set in the east side of a 48-inch multi-pronged maple tree, 41 feet west from the west end of the southwest wingwall of the bridge, 7 feet below the road, 1.4 feet above ground, a railroad spike driven through a brass plate stamped "TBM WC 50, 1958."	735.160 Destroyed See Docket #B551

Mark
BM
HOW 1

In Howard County, about 2.0 miles north of New London, 2.0 miles generally north along a paved road from the school building in New London to a steel truss bridge over Wildcat Creek, set in top of a concrete post, 420 feet north from the north end of the bridge, 15 feet west from the center line of the road, 0.6 foot below the road, 0.2 foot above ground, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 1, 1958."

Elevation Feet

~~754.561~~

Superseded

See page 18

Not recovered 8/8/62
Bk 574/p.73
from the plan B551;
about 400 feet north
of new bridge

Indianapolis, Indiana

BENCH MARK DESCRIPTIONS

HOWARD COUNTY, INDIANA

The field work was done by the Indiana Flood Control and Water Resources Commission. All level lines were started from and closed on either First or Second Order bench marks established by the U. S. Coast and Geodetic Survey.

DATUM:

Elevations given in this have been determined from standard elevations of U.S.C.&G.S.. bench marks, based on the Sea-Level Datum of 1929.

HOWARD COUNTY

December 28, 1958

The following elevations were determined during October, 1956 by leveling from U. S. Coast and Geodetic Survey bench mark F 211, standard elevation 823.404 feet.

Second Order Levels were run by the three wire method using invar-steel, yard rods. The level circuit closed within allowable limits for second order leveling.

All levels were adjusted to agree with the standard elevation of bench mark F 211 as published by the U. S. Coast and Geodetic Survey. All elevations in this line are based on the USC&GS standard elevation of bench mark F 211.

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS F 211	In Howard County, about 1.0 mile west of <u>Vermont</u> , 1.0 mile west along the New York, Chicago and St. Louis Railroad from the station in Vermont to a north-south gravel road crossing, set in the northwest quarter of the crossing, two poles east of pole 176/30, 97 feet west from the center line of the north-south road, 25 feet south from the center line of the gravel road paralleling the tracks, 21 feet north from the north rail of the tracks, 11 feet east of a pole, 5 feet below the tracks, 0.4 foot above the ground, set in top of a concrete post, a standard USC&GS bench mark tablet, stamped "F 211, 1946."	823.404 Superseded See page 35
USC&GS C 27	In Howard County, about 2.0 miles west of <u>Vermont</u> , 2.0 miles west along the New York, Chicago and St. Louis Railroad from the station in Vermont to a north-south paved crossroad, set in the southwest quarter of the crossing, 26 feet west from the center line of the north-south road, 23 feet south from the south rail of the tracks, 0.2 foot above ground, set in top of concrete post, a standard USC&GS bench mark tablet, stamped "C 27, 1934."	822.190 NGS 822.038 IFC&WRC Superseded See page 35

Mark
TBM
WC 1

In Howard County, about 1.1 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.2 mile south to a field entrance road west, set in top of the south headwall of a 10-inch culvert under the field entrance road, 1.7 feet west of the east end of the culvert, 1.0 foot above the road, 0.5 foot north from the south edge of the culvert, a chiseled triangle.

Elevation Feet

~~809.468~~
9/20/62
~~809.634~~
Superseded
See page 52

TBM
WC 2

In Howard County, about 1.2 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 mile generally west to a north-south crossroad, thence 0.35 mile south, set in the west side of a 8-inch elm tree, 21 feet east from the center line of the road, 1.0 foot north of a thorn tree used as fence corner, 1.0 foot above the road, a railroad spike driven through a brass plate, stamped "TBM WC 2, 1956.

~~802.996~~
9/20/62
~~803.163~~
Superseded
See page 52

TBM
WC 3

In Howard County, about 1.3 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set in top at the east corner of the southeast wingwall of the bridge, 14 feet east from the center line of the road, 10.4 feet southeast from the south end of the east bridge handrail, 1.5 feet above the road, a chiseled square.

~~808.542~~
Superseded
See page 36

Mark
RP#1

In Howard County, about 1.3 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creel, set in top of the center pier of the bridge, 65 feet north from the south end of the west guardrail, 10 feet west from the center line of the road, 4.0 feet above the road, 0.6 foot east from the west face of the center pier top, marked with arrow.

Elevation Feet

~~814.072~~
Destroyed

RP#2

In Howard County, about 1.3 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set in top at the north end of the west concrete guardrail, at the southwest corner of the north guardrail post of the west guardrail.

~~812.830~~
Superseded
See page 36

RP#3

In Howard County, about 1.3 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set on the west face of the west concrete guardrail of the bridge, 35.7 feet south from the north end of the bridge, 9.7 feet west from the center line of the road, 3.2 feet above the road, 0.7-foot angle iron bolted to the west face of the west guardrail, a filed V in top of the angle iron.

~~813.124~~
Superseded
See page 37

HOWARD COUNTY

September 20, 1962

The following elevations were determined during August 1961, June, July and August 1962, by leveling between U. S. Coast and Geodetic Survey bench marks in the Wildcat Creek Basin. The level lines run generally upstream from the mouth of Wildcat Creek, Middle Fork Wildcat Creek and South Fork Wildcat Creek to their heads respectively.

Second Order Levels were run by the three wire method using invar-steel, yard rods. All level circuits closed within allowable limits for second order leveling.

All levels were adjusted to agree with the standard elevations of bench marks published by the U.S. Coast and Geodetic Survey. The levels were adjusted whenever the adjustment required was within second order limits between consecutive U. S. Coast and Geodetic Survey 30-minute quadrangle 1st and 2nd order control lines for the following marks: B 120, Y 119, X 119, M 31 and X 86 in Tippecanoe County, R 31, P 31, B 119, D 119, F 116, G 116 RESET, 199.02 (NYC & STL RR) and U 195 in Clinton County, F 119, G 119, M 120, L 120, K 120, J 120, K 117, L 116, M 116 RESET, G 117 and D 117 in Carroll County and U 114, A 117, Z 116, KOKOMO, C 27, Z 26, W 204, V 204 and U 204 in Howard County.

Pages 1 through 9 of this county, line dated May 27, 1958 and December 28, 1958 are superseded with all marks (which were recoverable) being redescribed and tied in during this leveling.

WILDCAT CREEK

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS BM B 117	In Howard County, about 1.55 miles east of <u>Burlington</u> , <u>Carroll County</u> , 1.55 miles generally east along State Road 22 from its junction with State Road 29 in Burlington to the State Road 22 steel truss bridge over the Wildcat Creek, set in top of the west end of the north concrete railing at the west end of the bridge, 15.5 feet north from the center line of the highway, 3.7 feet above the highway, 1.5 feet east from the west face of the north concrete railing, 0.6 foot south from the north face of the north concrete railing, a standard USC&GS disk, stamped "B 117, 1946."	725.156

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS BM A 117	In Howard County, about 2.2 miles east of <u>Burlington, Carroll County</u> , 2.2 miles generally east along State Road 22 from its junction with State Road 29 in Burlington to a 40-foot concrete bridge over Petes Run, about 0.65 mile east of Wildcat Creek, set in top of the southwest concrete wingwall of the bridge, 18 feet south from the center line of the road, 0.9 foot south from the south face of the south concrete guardrail, 0.55 foot northwest from the southeast face of the wingwall, about 0.4 foot above the highway, a standard USC&GS disk, stamped A 117, 1946."	746.153
USC&GS BM Z 116	In Howard County about 2.9 miles east of <u>Burlington, Carroll County</u> , 2.9 miles generally east along State Road 22 from its junction with State Road 29 in Burlington to a 5-foot concrete box culvert under the highway, about 0.15 mile east of a north-south crossroad, across the highway from the Rockney farm house yard, set in top of the center of the west concrete headwall of the culvert, 29 feet north from the center line of the highway, 6.0 feet below the center line of the road, 2.95 feet east from the west face of the north headwall, 0.6 foot south from the north face of the headwall, a standard USC&GS disk, stamped "Z 116, 1946."	768.201
TBM WC 57	In Howard County, about 2.7 miles southwest of <u>Ridgeway</u> , 2.6 miles west along State Road 22 from its junction with a gravel T-road south (Howard County Road 900 W), at the west edge of Ridgeway, to a north-south gravel crossroad, thence 0.75 mile south, set in the west side of a power pole, about 265 feet north of a drive west leading to a farm, 16 feet east from the center line of the road, 2.2 feet west from a fence line, about 1.0 foot below the road, 0.8 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 57 1962."	788.040

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 2	In Howard County, about 2.8 miles southwest of <u>Ridgeway</u> , 2.6 miles west along State Road 22 from its junction with a gravel T-road south (Howard County Road 900 W), at the west edge of Ridgeway, to a north-south gravel crossroad, thence 1.1 miles generally south to a 2-span concrete arch bridge over Wildcat Creek, set in top of the north end of the east concrete guardrail of the bridge, 13 feet east from the center line of the road, 2.0 feet above the road, 1.5 feet south from the north face of the east concrete guardrail, 0.9 foot west from the east face of the east guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 2, 1960."	733.426
TBM WC 58	In Howard County, about 2.7 miles southwest of <u>Ridgeway</u> , 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 2.5 miles west to the J. C. Young residence on the south side of the road, set in the north side of a power pole, 34.5 feet south from the center line of the road, 12 feet west from the center line of the driveway, 0.7 foot above the ground, pole is in the northeast corner of the yard, a railroad spike driven through an aluminum tag, stamped "TBM WC 58, 1962."	788.517

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 59	In Howard County, about 2.0 miles southwest of <u>Ridgeway</u> , 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 1.7 miles west to a farm house on the south side of the road, about 0.1 mile west of a T-road north, set in the north side of a fence corner post, about 120 feet west from the northwest corner of the house, 21.5 feet south from the center line of the road, 8.5 feet west of a field entrance south, 1.0 foot above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 59, 1962."	789.552
BM HOW 3	In Howard County, about 2.0 miles southwest of <u>Ridgeway</u> , 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 1.55 miles west to county road 1050 W., set in top of the east end of the south leg of the "L" shaped concrete headwall of a 12-inch pipe culvert under county road 00 N.S., 18 feet north from the center line of county road 00 N.S., 18 feet east from the center line of county road 1050 W., 0.65 foot west from the east face of the headwall, 0.5 foot below the center line of county road 1050 W., 0.45 foot south from the north face of the south leg of the headwall, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 3, 1960."	787.538

Mark
TBM
WC 60

In Howard County, about 1.4 miles southwest of Ridgeway, 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 0.8 mile west to a 4-foot pipe culvert under the road, about 100 feet west of county road 980 W., about 50 feet east from a farm house on the south side of the road, set in top of the east end of the south concrete headwall of the culvert, 15 feet south from the center line of the road, 1.2 feet below the center line of the road, 0.55 foot north from the south face of the headwall, a painted chiseled triangle.

Elevation Feet

774.644

BM
HOW 4

In Howard County, about 1.5 miles southwest of Ridgeway, 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 0.5 mile west to a gravel one-span steel truss bridge over Wildcat Creek, set in top of the southeast concrete wingwall of the bridge, 12 feet east from the center line of the road, 3.0 feet south from the southeast end of the truss of the bridge, 1.45 feet southwest from the northeast face of the southeast wingwall, about 0.8 foot below the top of the bridge floor, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 4, 1960."

~~741.350~~
Superseded
See page 54

Mark
TBM
WC 61

In Howard County, about 1.5 miles southwest of Ridgeway, 1.05 miles south along a gravel road from its T-junction with State Road 22 at the west edge of Ridgeway to an east-west tar road (Howard County Road 00 N.S.), thence 0.5 mile west to a gravel T-road south (County Road 950 W.), thence 0.25 mile south to a one-span steel truss bridge over Wildcat Creek, set in top of near the center of the southwest concrete headwall of an 18-inch pipe culvert under the road and 265 feet south from the bridge, 15 feet southwest from the southeast face of the headwall, about 0.7 foot below the center line of the road, 0.45 foot northeast from the southwest face of the headwall, a painted chiseled triangle.

Elevation Feet

737.339

TBM
WC 62

In Howard County, about 2.0 miles southwest of Ridgeway, 1.05 miles south along county road 900 W. from its T-junction with State Road 22 at the west edge of Ridgeway to its T-junction with county road 00 N.S., thence 0.5 mile west to county road 950 W., thence 1.0 mile south to county road 100 S., set in top of the southwest concrete wingwall of a 12-foot bridge over a small ditch, 45 feet north from the center line of county road 100 S., 11.5 feet west from the center line of county road 950 W., 1.15 feet below the road, 0.7 foot southeast from the northwest face of the headwall, 0.6 foot northeast from the southwest face of the headwall, a painted chiseled triangle.

755.529

Mark
TBM
WC 63

In Howard County, about 2.5 miles south of Ridgeway, also 3.8 miles south and southwest of Judson, 3.1 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to county road 100 S., thence 1.3 miles generally west and south to a paved T-road west (county road 150 S.), thence 1.0 mile west to an abandoned farm house on the north side of the road, about 0.05 mile east of an old red-brick school building, set in the south side of a fence corner post, 58 feet west from the center line of the driveway leading to a farm house, 27.5 feet north from the center line of the paved road, 0.8 foot above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 63, 1962."

Elevation Feet

812.725

BM
HOW 5

In Howard County, about 3.8 miles south of Judson, 3.1 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to county road 100 S., thence 1.3 miles generally west and south to a paved T-road west (county road 150 S.), thence 0.65 mile west to a 5-foot pipe culvert under the road, about 0.1 mile west of county road 870 W., 52 feet east from the center line of a driveway south leading to a farm house, set in top of the east end of the south concrete headwall of the culvert, 1.05 feet west from the east face of the south headwall, 0.4 foot north from the south face of the headwall, about 0.4 foot above the center line of the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 5, 1960."

799.247

Mark

Elevation Feet

TBM
WC 64

In Howard County, about 3.2 miles south of Judson, 3.1 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to county 100 S., thence 0.95 mile west and south to the Earl Quinn residence on the east side of the road, set in the west side of a 10-inch walnut tree in the northwest corner of the lawn, about 55 feet east from the center line of the north-south road, 35 feet northwest from the northwest corner of the house, 12 feet south from the center line of the driveway, 1.2 feet above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 64, 1962."

787.648

BM
HOW 6

In Howard County, about 3.0 miles south of Judson, 3.1 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to county road 100 S., thence 0.7 mile west to a one-span steel pony truss bridge over Honey Creek, set in top of the northeast concrete wingwall of the bridge, 9.5 feet north from the center line of the road, 1.7 feet below road, 0.6 foot north from the north face of the east end of the north truss of the bridge, 0.6 foot west from the east face of the east bridge seat, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 6, 1960."

~~747.849~~
Destroyed
11/12/75

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 65	In Howard County, about 3.0 miles south of <u>Judson</u> , 3.1 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to county road 100 S., thence 0.65 mile west to the C. R. Hunter residence on the north side of the road, about 315 feet east of a bridge over Honey Creek, set in the south side of a 28-inch sycamore tree, 26 feet north from the center line of the road, 25 feet west from the center line of the driveway, 12.5 feet northwest of a mailbox, 1.1 feet above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 65, 1962."	759.813
BM HOW 1 RESET	In Howard County, about 2.1 miles south of <u>Judson</u> , 2.2 miles south along county road 750 W. from the crossroads in Judson to a multi-span concrete bridge over Wildcat Creek, set in top of the northwest concrete wingwall of the bridge, 13.5 feet west from the center line of the road, 0.7 foot west from the west face of the west guardrail, 0.65 foot north from the south face of the wingwall, 0.6 foot south from the north face of the west concrete guardrail, about 0.5 foot above the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 1 RESET, 1960."	750.598
TBM WC 66	In Howard County, about 2.5 miles south of <u>Judson</u> , 2.5 miles south along county road 750 W. from the crossroads in Judson to an 8-foot box culvert under the road, about 180 feet north of a farm house on the west side of the road, at a lake on the east side of the road, set in top of the northwest concrete wingwall of the culvert, 15 feet west from the center line of the road, 4.0 feet northwest from the northwest corner of the west headwall, about 0.8 foot below the center line of the road, 0.5 foot northeast from the southwest face of the wingwall, a painted chiseled triangle.	759.151

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS BM V 114	In Howard County, about 1.15 miles north of <u>New London</u> , 1.15 miles north along a paved road (County Road 750 W.) from the school at New London, about 0.3 mile north of a crossroads, 66 feet southwest from the southwest corner of Russell Taylor's farm house, 23 feet east from the center line of the road, 18 feet south from the center line of the road, set in top of a concrete post projecting 0.5 foot above ground, a standard USC&GS disk, stamped "V 114, 1946." (IFC&WRC elevation 788.964 feet).	788.824
USC&GS BM U 114	In Howard County, at <u>New London</u> , set vertically in the west face of the southwest corner of the New London School Building, 2.9 feet above the ground, 2.4 feet north from the southwest corner of the school building, a standard USC&GS disk, stamped "U 114, 1946."	824.424
TBM WC 67	In Howard County, about 2.1 miles southeast of <u>Judson</u> , 2.0 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to an east-west crossroad (County Road 00 N.S.), thence 0.5 mile east to a 6-foot concrete arch culvert under the road, about 135 feet west of a T-road north (County Road 700 W.), set in top of near the center of the south concrete headwall of the culvert, 12.5 feet south from the center line of the road, 3.05 feet west from the point where the southeast concrete wingwall joins the south headwall, 0.55 foot north from the south face of the headwall, about 0.3 foot below the center line of the road, a painted chiseled triangle.	768.278

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 7	In Howard County, about 2.4 miles southeast of <u>Judson</u> , 2.0 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to an east-west crossroad (County Road 00 N.S.), thence 1.35 miles east to a twin 24-inch pipe culvert under the road, 95 feet east from the center line of the driveway leading to the Paul Taskey residence, set in top of the west end of the north concrete headwall of the culvert, 12.5 feet north from the center line of the road, 2.9 feet east from the west face of the north concrete headwall, 0.8 foot above the road, 0.5 foot south from the north face of the headwall, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 7 1960."	781.986
TBM WC 68	In Howard County, about 2.4 miles southeast of <u>Judson</u> , 2.0 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to an east-west crossroad (County Road 00 N.S.), thence 1.55 miles east to a T-road north (County Road 600 W.), set in top of the center of the west concrete headwall of a 12-inch pipe culvert under the T-road north, 31 feet north from the center line of T-road, 2.05 feet south from the north face of the west headwall, about 0.9 foot below the center line of the T-road north, a painted chiseled triangle.	782.671

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 8	In Howard County, about 2.9 miles southeast of <u>Judson</u> , 2.0 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to an east-west crossroad (County Road 00 N.S.), thence 2.35 miles east along a paved and gravel road to 6-foot concrete box culvert under the road, about 160 feet east from the center line of the a driveway leading south to the Lee Miller farm, set in top of the east end of the north concrete headwall of the culvert, 10.5 feet north from the center line of the road, 1.5 feet west from the east face of the north concrete headwall, about 0.7 foot below the center line of the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 8, 1960."	766.913
TBM WC 69	In Howard County, about 2.9 miles southeast of <u>Judson</u> , 2.0 miles south along county road 750 W. from its junction with county road 200 N. at the crossroads in Judson to an east-west crossroad (County Road 00 N.S.), thence 2.5 miles east to a curve northeast, set in the south side of a 27-inch tree on a fence line, 80 feet northwest form a large power pole near the center of the curve on the south side of the road, 21 feet north from the center line of the road west, 1.25 feet above ground, about 0.7 foot above the center line of the road, a railroad spike driven through an aluminum tag, stamped "TBM WC 69, 1962."	779.113

Mark
TBM
WC 70

In Howard County, about 4.0 miles west of Kokomo, 4.3 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a gravel T-road south (county road 480 W.), thence 0.75 mile south to a southwest-northeast gravel T-road (county road 00 N.S.), thence 0.1 mile northeast to a 35-foot concrete bridge over a tributary of Wildcat Creek, set in top of the northeast end of the northwest concrete guardrail of the bridge, 9 feet northwest from the center line of the road, 6.7 feet southwest from the northeast face of the guardrail, 3.2 feet above the road, a painted chiseled triangle.

Elevation Feet

760.296

BM
HOW 9

In Howard County, about 3.7 miles west of Kokomo, 4.3 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a gravel T-road south (county road 480 W.), thence 0.75 mile south to a southwest-northeast gravel T-road (county road 00 N.S.), thence 0.45 mile northeast to a gravel T-road south (county road 430 W.) and a one-span steel truss bridge over Wildcat Creek and on the T-road south, set in top of the southeast concrete wingwall of the bridge, 10.5 feet east from the center line of the road, 2.35 feet south from the north face of the south bridge seat, 1.3 feet below the road, 1.1 feet southwest from the northeast face of the wingwall, 1.05 feet east from the southeast corner of the south end of the east truss of the bridge, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 9, 1960."

~~759.733~~

Superseded
See page 55

Mark
TBM
WC 71

In Howard County, about 4.0 miles west of Kokomo, 2.6 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a north-south crossroad (county road 300 W.), thence 1.3 miles south to an east-west crossroad (county road 50 S.), thence 1.5 miles west to a T-road north (county road 450 W.) and a 6-foot concrete box culvert under the east-west road, set in top of near the center of the south concrete headwall of the culvert, 32 feet east from the center line of the T-road north, 12 feet south from the center line of the east-west road, 8.2 feet west from the east face of the south headwall, 0.65 foot north from the south face of the headwall, 0.2 foot above the center line of the road, a painted chiseled triangle.

Elevation Feet

786.486

BM
HOW 10

In Howard County, about 3.4 miles west of Kokomo, 2.6 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a north-south crossroad (county road 300 W.), thence 1.3 miles south to an east-west crossroad (county road 50 S.), thence 0.8 mile west to a 4-foot pipe culvert under the road, 135 feet east from the extended center line of a driveway north leading to the Kenneth Sharp residence, set in top of the southeast concrete wingwall of the culvert, 14.5 feet south from the center line of the road, 1.15 feet northwest from the southeast face of the wingwall, 0.7 foot northeast from the southwest face of the wingwall, about 0.6 foot below the center line of the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 10, 1960."

789.408

Mark
TBM
WC 72

In Howard County, about 3.1 miles west of Kokomo, 2.6 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a north-south crossroad (county road 300 W.), thence 1.3 miles south to an east-west crossroad (county road 50 S.), thence 0.55 mile west to a 6-foot concrete arch culvert under the road, set in top of near the center of the south concrete headwall of the culvert, 11 feet south from the center line of the road, 4.25 feet west from the point where the southeast wingwall joins the south headwall of the culvert, 0.65 foot north from the south face of the headwall, about 0.5 foot above the center line of the road, a painted chiseled triangle.

Elevation Feet

783.074

BM
HOW 11

In Howard County, about 2.5 miles west of Kokomo, 2.6 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a north-south crossroad (county road 300 W.), thence 1.1 miles south to a 2-span steel truss bridge over Wildcat Creek, set in top of the east end of the center concrete pier of the bridge, 10.5 feet east from the center line of the road, 1.3 feet below the top of the bridge floor, 1.0 foot southeast from the northwest face of the pier, 1.0 foot northwest from the southeast face of the pier, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 11, 1960."

~~772.671~~

Superseded
See page 55

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 73	In Howard County, about 2.3 miles west of <u>Kokomo</u> , 1.6 miles west along State Road 22 from its junction with U. S. Highway 35 in Kokomo to a north-south crossroad (county road 200 W.), thence 1.3 miles south to an east-west crossroad (county road 50 S.), thence 0.5 mile west to a field entrance north to the U. S. Soil Conservation test plats for corn seed, about 0.1 mile west of the entrance to the Yeoman Stone Company, set in the south side of the west wooden gate post on the field entrance, 25 feet north from the center line of the east-west road, 7.6 feet west from the center line of the field entrance, 1.2 feet above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 73, 1962."	802.937
TBM WC 74	In Howard County, at the west edge of <u>Kokomo</u> , on county road 200 W. (Dixon Road), about 0.2 mile south of a concrete bridge over Wildcat Creek and the city dump, set in the east side of a high tension power line pole, 58 feet north from the center lone of a driveway leading east to a basement house, 21.5 feet west from the center line of the north-south road, 0.7 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 74, 1962."	794.523
BM HOW 12	In Howard County, at the west edge of <u>Kokomo</u> , at the county road 200 W. (Dixon Road) 4-span concrete bridge over Wildcat Creek, set in top of the northwest concrete wingwall of the bridge, 16 feet west from the center line of the road, 0.85 foot west from the west face of the west concrete guardrail, 0.7 foot above the road, 0.6 foot north from the south face of the wingwall, about 0.2 foot south from the north face of the west concrete guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 12, 1960."	793.676 Superseded See page 55

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 75	In Howard County, at the west edge of <u>Kokomo</u> , at the county road 200 W. (Dixon Road) 4-span concrete bridge over Wildcat Creek, set in top of the southeast concrete wingwall of the bridge, 16 feet east from the center line of the road, 0.95 foot east from the east face of east concrete guardrail of the bridge, 0.6 foot southwest from the northeast face of the wingwall, 0.5 foot above the road, a chiseled square.	792.439
TBM WC 76	In Howard County, at the west edge of <u>Kokomo</u> , at the county road 200 W. (Dixon Road) 4-span concrete bridge over Wildcat Creek, set in top of the second concrete guardrail post north of the south end of the bridge on the east concrete guardrail, 95 feet north from the south end of the bridge, 14.5 feet east from the center line of the road, 3.7 feet above the road, 0.5 foot west from the east face of the post, a chiseled square.	795.960
TBM WC 77	In Howard County, at the west edge of <u>Kokomo</u> , at the county road 200 W. (Dixon Road) 4-span concrete bridge over Wildcat Creek, set in top of the northeast concrete wingwall of the bridge, 16 feet east from the center line of the road, 1.1 feet east from the east face of the east concrete guardrail, 0.7 foot northwest from the southeast face of the wingwall, 0.6 foot above the road, a chiseled square.	793.656

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 13	In Howard County, at <u>Kokomo</u> , at the Park Avenue one-span steel pony truss bridge over Kokomo Creek, set in top of the northwest concrete wingwall of the bridge, 14.5 feet west from the center line of Park Avenue, 2.8 feet west from the north end of west iron handrail of the bridge, 1.1 feet northeast from the southwest face of the wingwall, 0.6 foot north from the south face of the north bridge seat, 0.2 foot below the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 13, 1960."	788.959
BM HOW 14	In Howard County, at <u>Kokomo</u> , at the Markland Avenue 3-span concrete bridge over Wildcat Creek, set in top of the west end of the north concrete sidewalk of the bridge, 18.5 feet east from the west end of the north concrete guardrail, 15 feet north from the center line of the road, 2.6 feet east from the west end of the north sidewalk of the bridge, 0.7 foot south from the south face of the north guardrail, 0.7 foot above the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 14, 1960."	796.695 Destroyed 4/24/84
BM HOW 15	In Howard County, at <u>Kokomo</u> , at the south Phillips Street 3-span concrete arch bridge over Wildcat Creek, set in top of the north end of the west concrete guardrail of the bridge, 52 feet south from the north end of the bridge, 19 feet west from the center line of south Phillips Street, 4.1 feet above the street, 0.75 foot east from the west face of the guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 15, 1961."	801.879

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 16	In Howard County, at <u>Kokomo</u> , at the McCann Street 2-span concrete arch bridge over Wildcat Creek, set in top of the south end of the west concrete guardrail of the bridge, 18 feet west from the center line of McCann Street, 2.0 feet above the road, 1.6 feet north from the south face of the west guardrail, 1.0 foot east from the west face of the west guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 16, 1961."	Superseded RESET 1963 No elevation
TBM WC 78	In Howard County, at <u>Kokomo</u> , in the northwest corner of the Kokomo City Park near the northwest corner of the swimming pool, set in the southwest side of a 30-inch sycamore tree, 80.5 feet east from the center line of McCann Street, about 70 feet southeast from the southeast corner of the McCann Street Bridge over Wildcat Creek, 66 feet east from a chain-link fence around the park, 1.1 feet above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 78, 1962."	800.227
BM HOW 17	In Howard County, at <u>Kokomo</u> , at the South Washington Street Bridge over Wildcat Creek, set in top of the south end of the east concrete guardrail, 28 feet east from the center line of Washington Street, 10 feet north from the south end of the guardrail, 4.5 feet north from an iron light post on top of the guardrail, 4.5 feet above the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 17, 1961."	802.046

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS BM KOKOMO	In Howard County, at <u>Kokomo</u> , at the City (Hall) Building, in the southeast quarter of the intersection of U. S. Highway 31 (North Washington Street) and West Walnut Street, 16.5 feet west of the center of the north entrance to the building, 6 inches north of the north foundation of the building, set in the top of 0.6 foot square concrete post projecting 0.3 foot above the sidewalk, a standard USC&GS bench mark tablet, stamped "KOKOMO 1934."	810.379
TBM WC 79	In Howard County, at <u>Kokomo</u> , at the New York, Chicago and St. Louis Railroad Bridge over Wildcat Creek, set in top of the west end of the south concrete bridge seat, 9.5 feet west from the west rail of the track, 5.1 feet below the top of the rails, 1.1 feet east from the west face of the bridge seat, 0.9 foot south from the north face of the bridge seat, a painted chiseled triangle.	803.686
BM HOW 18	In Howard County, at <u>Kokomo</u> , at the south Main Street 2-span concrete bridge over Wildcat Creek, set in top of the east end of the south concrete bridge seat, 31.5 feet east from the center line of Main Street, 1.25 feet east from the southeast corner of the east concrete guardrail of the bridge, 0.9 foot below Main Street, 0.75 foot south from the north face of the bridge seat, 0.6 foot west from the east face of the bridge seat, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 18, 1961."	798.677

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 80	In Howard County, at <u>Kokomo</u> , at the South Union Street 2-span concrete bridge over Wildcat Creek, set in top of the northwest concrete wingwall of the bridge, 29 feet west from the center line of Union Street, 0.85 foot above Union Street, 0.7 foot west from the northwest corner of the west concrete guardrail of the bridge, 0.5 foot north from the south face of the wingwall, a painted chiseled triangle.	801.165
BM HOW 19	In Howard County, at <u>Kokomo</u> , at the south Apperson Way Street 2-span concrete arch bridge over Wildcat Creek, set in top of the south end of the east concrete guardrail of the bridge, 29 feet east from the center line of the street, 4.4 feet above the top of the sidewalk, 2.0 feet north from the south face of the guardrail, 0.8 foot west from the east face of the guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 19, 1961."	809.558 Reported Destroyed by 3rd party 7/16/87
TBM WC 81	In Howard County, at <u>Kokomo</u> , at the Pennsylvania Railroad Bridge over Wildcat Creek, set in top of the southeast end of the southwest stone retaining of the bridge, 3.75 feet southwest from the southwest rail of the track, 2.25 feet northwest form the southeast face of the retaining wall, 1.25 feet northeast from the southwest face of the retaining wall, 0.7 foot below the top of the rails, a painted chiseled triangle.	810.369

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 20	In Howard County, at <u>Kokomo</u> , at the south Ohio Street 4-span concrete bridge over Wildcat Creek, set in top of an 8' x 11' permanent concrete sewer housing located near the northeast corner of the bridge, set in top of the southwest corner of the concrete structure with two sewer lids on top , 28 feet east from the centerline of Ohio Street, 11 feet south from the north end of the bridge, 5 feet east from the east face of the east concrete guardrail of the bridge, about 2.3 feet below Ohio Street, 0.85 foot north from the south face of the concrete sewer housing, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 20, 1961."	800.659 Superseded
TBM WC 82	In Howard County, at <u>Kokomo</u> , at the east Carter Street one-span steel truss bridge over Wildcat Creek, set in the south side of the northeast 12-inch trunk of a triple trunked tree, 47.5 feet east from the east end of the bridge, 29 feet north from the center line of Carter Street, 1.5 feet above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 82, 1962."	801.811
ISHC BM HOW G 6	In Howard County, at <u>Kokomo</u> , at the U. S. Highway 31 by-pass concrete bridge over Wildcat Creek, set in top of the south end of the west concrete guardrail base of the south bound traffic bridge, 25 feet west from the center line of the south bound traffic lanes, 0.9 foot above the highway, 0.8 foot west from the east face of the west guardrail, 0.4 foot east of the west face of the guardrail, 0.35 foot south from the south face of the west guardrail, a standard Indiana State Highway Commission bench mark tablet, stamped "HOW G 6."	811.195

<u>Mark</u>		<u>Elevation Feet</u>
ISHC BM HOW G 5	In Howard County, at <u>Kokomo</u> , at the U. S. Highway 31 by-pass concrete bridge over Wildcat Creek, set in top of the south end of the west concrete guardrail base of the north bound traffic bridge, 19.5 feet west from the center line of the north bound traffic lanes, 0.7 foot west from the east face of the west concrete guardrail, 0.3 foot north from the south end of the west concrete guardrail base, 0.15 foot south from the south face of the west guardrail, a standard Indiana State Highway Commission bench mark tablet, stamped "HOW G 5."	811.011
TBM WC 83	In Howard County, about 1.9 miles northeast of <u>Kokomo</u> , 1.0 mile north along U. S. Highway 31 by-pass from its junction with State Road 22 and U. S. Highway 35 at the east edge of Kokomo to a northeast-southwest paved crossroad (county road 100 N.), thence 0.5 mile northeast to a 12-inch pipe culvert under the road, about 130 feet southwest from a driveway leading north to a farm house, set in top of near the center of the northwest concrete headwall of the culvert, 16 feet northwest from the center line of the road, 3.3 feet northeast from the southwest face of the headwall, 0.6 foot southeast from the northwest face of the headwall, about level with the road, a painted chiseled triangle.	814.517

MarkElevation Feet

BM
HOW 21

In Howard County, about 2.5 miles northeast of Kokomo, 1.0 mile north along U. S. Highway 31 by-pass from its junction with State Road 22 and U. S. Highway 35 at the east edge of Kokomo to a northeast-southwest paved crossroad (county road 100 N.), thence 1.0 mile northeast to a 6-foot concrete box culvert under the road, set in top of the northeast end of the northwest concrete headwall of the culvert, 12 feet northwest from the center line of the road, 1.4 feet southwest from the point where the north wingwall joins the northeast end of the northwest headwall, 0.5 foot southeast from the northwest face of the headwall, about 0.2 foot above the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 21, 1961."

808.029

TBM
WC 84

In Howard County, about 2.8 miles northeast of Kokomo, 1.0 mile north along U. S. Highway 31 by-pass from its junction with State Road 22 and U. S. Highway 35 at the east edge of Kokomo to a northeast-southwest paved crossroad (county road 100 N.), thence 1.35 miles northeast, set in the southeast side of a 36-inch maple tree, 110 feet northeast from the center line of a driveway leading northwest to the T. D. Peck farm house, 22 feet northwest from the center line of the paved road, 11 feet northeast from the center line of a driveway leading to a barn, 0.8 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 84, 1962."

~~821.403~~
Destroyed
3/8/72

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 22	In Howard County, about 2.1 miles west of <u>Vermont</u> , 0.35 mile south along a gravel road from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west paved crossroad (county road 100 N.), thence 2.3 miles generally west to a north-south paved crossroad (county road 300 E.), thence 0.1 mile south to a 3-span concrete bridge over Wildcat Creek, set in top of the south end of the west concrete guardrail base of the bridge, 13.5 feet west from the center line of the road, 4.5 feet northwest from the southeast corner of the west concrete guardrail base, 0.7 foot above the road, 0.6 foot east from the east face of the west concrete and aluminum guardrail of the bridge, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 22, 1961."	808.258
TBM WC 85	In Howard County, about 2.0 miles west of <u>Vermont</u> , 0.35 mile south along a gravel road from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west paved crossroad (county road 100 N.), thence 2.3 miles generally west to a north-south paved crossroad (county road 300 E.), thence 0.05 mile south to a 15-foot concrete arch culvert under the road, about 200 feet north of a bridge over Wildcat Creek, set in top of the east concrete headwall of the culvert, 9 feet east from the center line of the road, 7.35 feet north from the south face of the east headwall, 0.6 foot west from the east face of the headwall, about 0.3 foot above the center line of the road, a painted chiseled triangle.	804.563

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS C 27	In Howard County, about 2.0 miles west of <u>Vermont</u> , 2.0 miles west along the New York, Chicago and St. Louis Railroad from the station in Vermont to a north-south paved crossroad, set in the southwest quarter of the crossing, 26 feet west from the center line of the north-south road, 23 feet south from the south rail of the tracks, 5 feet northwest of a fence corner, 1.0 foot above the tracks, 0.2 foot above ground, set in top of concrete post, a standard USC&GS bench mark tablet, stamped "C 27, 1934."	822.190
USC&GS F 211	In Howard County, about 1.0 mile west of <u>Vermont</u> , 1.0 mile west along the New York, Chicago and St. Louis Railroad from the station in Vermont to a north-south gravel road crossing, set in the northwest quarter of the crossing, two poles east of pole 176/30, 97 feet west from the centerline of the north-south road, 25 feet south from the center line of a gravel road paralleling the tracks, 21 feet north from the north rail of the tracks, 11 feet east of a pole, 5 feet below the tracks, 0.4 foot above ground, set in top of a concrete post, a standard USC&GS bench mark tablet, stamped "F 211, 1946." IFC&WRC elevation 823.564 feet.	823.404

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 23	In Howard County, about 1.3 miles southwest of <u>Vermont</u> , 0.35 mile south along a gravel road from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west crossroad (county road 100 N.), thence 1.2 miles generally west to a north-south crossroad (county road 400 E.), thence 0.5 mile south to a concrete arch bridge over Wildcat Creek, set in top of the Northeast concrete wingwall of the bridge, 9 feet east from the center line of the road, about 1.1 feet above the center line of the road, 0.9 foot north from the north face of the east concrete guardrail of the bridge, 0.5 foot northwest from the southeast face of the wingwall, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 23, 1961."	809.786
TBM WC 3	In Howard County, about 1.3 miles southwest of <u>Vermont</u> , 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set in top of at the east corner of the southeast wingwall of the bridge, 14 feet east from the center line of the road, 10.4 feet southeast from the south end of the east bridge handrail, 1.5 feet above the road, a chiseled square.	808.710
RP #2	In Howard County, about 1.3 miles southwest of <u>Vermont</u> , 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set in top at the north end of the west concrete guardrail, at the southwest corner of the north guardrail post of the west guardrail.	813.004

Mark
RP #3

In Howard County, about 1.3 miles southwest of Vermont, 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.5 mile south to a concrete bridge over Wildcat Creek, set on the west face of the west concrete guardrail of the bridge, 9.7 feet west from the center line of the road, 3.2 feet above the road, 0.7 foot angle iron bolted to the west face of the west guardrail, a filed V in top of the angle iron.

Elevation Feet

813.301

TBM
WC 86

In Howard County, about 1.0 mile south of Vermont, 1.0 mile south along a gravel road (county road 500 E.) from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west gravel crossroad (county road 50 N.), thence 0.15 mile west to a 4-foot concrete arch culvert under the road, about 125 feet west of an abandoned farm house on the north side of the road, set in top of near the center of the north concrete headwall of the culvert, 14 feet north from the center line of the road, 6.5 feet west from the east face of the north headwall, 0.5 foot south from the north face of the headwall, about 0.5 foot above the center line of the road, a painted chiseled triangle.

825.922

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 24	In Howard County, about 0.6 mile south of <u>Vermont</u> , 0.65 mile south along a gravel road (county road 500 E.) from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to a concrete bridge over the Wildcat Reservoir, set in top of the southeast wingwall of the bridge, 14.5 feet east from the center line of the road, 2.1 feet north from the south face of the east guardrail of the bridge, 0.9 foot south from the north face of the wingwall, 0.8 foot above the road, 0.75 foot east from the east face of the east guardrail of the bridge, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 24, 1961."	824.923
USGS UE 824.9	In Howard County, about 0.6 mile south of <u>Vermont</u> , 0.65 mile south along a gravel road (county road 500 E.) from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to a concrete bridge over the Wildcat Reservoir, set in top of the northeast concrete wingwall of the bridge, 15 feet east from the center line of the road, 0.7 foot east from the east face of the east concrete guardrail of the bridge, 0.6 foot north from the south face of the wingwall, 0.5 foot above the road, 0.4 foot south from the north face of the east guardrail, a painted chiseled triangle.	824.920

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 87	In Howard County, about 0.8 mile northeast of <u>Vermont</u> , 0.35 mile south along a gravel road (county road 500 E.) from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west paved crossroad (county road 100 N.), thence 0.55 mile east, about 0.15 mile west of a large white barn on the north side of the road and a house on the south side of the road, set in the north side of a T-fence corner post, 25 feet south from the center line of the road, 0.8 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 87, 1962."	838.536
TBM WC 88	In Howard County, about 2.5 miles northwest of <u>Greentown</u> , 2.9 miles west along U. S. Highway 35 and State Roads 22 and 19 from their junction with State Road 213 in Greentown to a north-south gravel crossroad (county road 50 N.), in the southwest one-quarter of the crossroads, set in the east side of a fence corner and gate post, 25.5 feet west from the center line of the north-south road, 24 feet south from the center line of the east-west road, 0.75 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 88."	827.514

Mark
BM
HOW 25

In Howard County, about 1.3 miles southeast of Vermont, 0.35 mile south along a gravel road (county road 500 E.) from its crossing with the New York, Chicago and St. Louis Railroad in Vermont to an east-west paved crossroad (county road 100 N.), thence 1.1 miles east to a north-south gravel crossroad (county road 600 E.), thence 0.2 mile south to a 2-span (one span concrete and one span steel truss) bridge over the Wildcat Reservoir, set in top of the west end of the south concrete bridge seat of the steel truss span, at the point where the southwest wingwall joins the center line of the road, 1.75 feet south from the north face of the south bridge seat, 1.2 feet west from the west face of the south end of the west truss of the bridge, 1.1 feet below the top of the bridge floor, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 25, 1961."

Elevation Feet

824.599
To be
destroyed
4/5/74

TBM
WC 89

In Howard County, about 1.7 miles northwest of Greentown, 1.9 miles west along U. S. Highway 35 and State Roads 22 and 19 from their junction with State Road 213 in Greentown to a north-south gravel crossroad (county road 700 E.), thence 0.5 mile north to a gravel and paved east-west T-road (county road 50 N.), thence 0.1 mile west to the Elmer Graf farm on the north side of the road, set in the west side of a 24-inch catalpa tree, 24 feet north from the center line of the road, 10 feet east from the center line of a driveway leading to the farm house, 9 feet west from the center line of a drive leading to a barn, 1.0 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 89, 1962."

830.761

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 26	In Howard County, about 1.5 miles northwest of <u>Greentown</u> , 1.9 miles west along U. S. Highway 35 and State Roads 22 and 19 from their junction with State Road 213 in Greentown to a north-south gravel crossroad (county road 700 E.), thence 0.5 mile north to a gravel and paved east-west T-road (county road 50 N.), thence 0.25 mile east to a 3-span concrete bridge over Wildcat Reservoir, set in top of the southwest concrete wingwall of the bridge, 15.5 feet south from the center line of the road, 2.35 feet south from the north face of the south concrete guardrail base, 1.4 feet east from the west end of the south concrete guardrail base, 0.85 foot above the road, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 26, 1961."	825.361
TBM WC 90	In Howard County, about 1.7 miles west of <u>Greentown</u> , 1.9 miles west along U. S. Highway 35 and State Roads 22 and 19 from their junction with State Road 213 in Greentown to a north-south gravel crossroad (county road 700 E.), set in top of the north concrete headwall of a 10-foot concrete culvert under the highway and about 60 feet west from the center line of county road 700 E., 19.5 feet north from the center line of the highway, 6.3 feet west from the east face of the north headwall, 0.7 foot above the road, 0.6 foot south from the north face of the north headwall, a painted chiseled triangle.	834.818

<u>Mark</u>		<u>Elevation Feet</u>
BM HOW 27	In Howard County, about 0.6 mile west of <u>Greentown</u> , at the U. S. Highway 35 and State Roads 22 and 19 one-span steel pony truss bridge over the Wildcat Reservoir, set in top of the east end of the southeast concrete guardrail of the bridge, 16 feet south from the center line of the highway, 3.5 feet above the highway, 1.8 feet west from the east face of the southeast guardrail, 0.75 foot north from the south face of the southeast guardrail, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 27, 1961."	828.470 To be destroyed 5/4/70
TBM WC 91 and USGS RM#2 GREENTOWN	In Howard County, about 0.6 mile west of <u>Greentown</u> , at the U. S. Highway 35 and State Roads 22 and 19 one-span steel pony truss bridge over the Wildcat Reservoir, set in top of the southeast concrete guardrail of the bridge, near the southeast corner of the west concrete guardrail post of the southeast concrete guardrail, 14 feet south from the center line of the highway, 3.5 feet above the highway, 3.25 feet east from the west face of the southeast concrete guardrail of the bridge, 0.4 foot north from the south face of the southeast guardrail, a chiseled square.	828.637
USC&GS BM Z 26	In Howard County, at <u>Greentown</u> , on the New York, Chicago and St. Louis Railroad, 238 feet west and across a north-south street from the northwest corner of the station, 140 feet west of the street crossing, 68 feet southwest and across the track from pole 171/40, 21 feet north from the center line of a cinder road paralleling the track, 7 feet south from the south rail of a side track, about 0.5 foot higher than the track, set in top of a concrete post projecting 0.1 foot above the ground, a standard USC&GS disk, stamped "Z 26, 1934."	843.765

BM
HOW 26

In Howard County, at the south edge of Greentown, 0.1 mile south along South Meridian Street from the Greentown School Building to a one-span steel pony truss bridge over Brunk Ditch, set in top of the southwest concrete wingwall of the bridge, 12.5 feet west from the center line of the road, 1.1 feet west from the west face of the south end of the west truss, 0.9 foot below the road, 0.45 foot south from the north face of the south concrete bridge seat, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 28, 1961."

~~827.092~~
Destroyed by
const. of new
bridge,
1/24/67

TBM
WC 92

In Howard County, about 0.5 mile south of Greentown, 0.25 mile south along Meridian Street and county road 850 E. from the Greentown School Building to a T-road west (county road 50 S.), set in the west side of a wooden fence and gate corner post, 17.5 feet east from the center line of the north-south road, 15.5 feet south from the extended center line of the T-road west, 9 feet south from the center line of the field entrance, 0.75 foot above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 92, 1962."

840.000

BM
HOW 29

In Howard County, about 0.5 mile southwest of Greentown, 0.25 mile south along South Meridian Street and county road 850 E. from the Greentown School Building to a T-road west (county road 50 S.), thence 0.4 mile west to a 3-span concrete bridge over Wildcat Creek, set in top of the southeast concrete wingwall of the bridge, 15 feet south from the center line of the bridge, 2.35 feet south from the north face of the south concrete wheelguard of the bridge, 0.7 foot above the ground, 0.5 foot east from the west face of the southeast wingwall, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 29, 1961."

827.066

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 93	In Howard County, about 1.0 mile south of <u>Greentown</u> , 0.65 mile generally south along South Meridian Street and county road 850 E. from the Greentown School Building to a 3-foot pipe culvert under the road, set in top of the south end of the east concrete headwall of the culvert, 16 feet east from the center line of the road, about 2.8 feet below the road, 0.45 foot west from the east face of the east headwall, 0.35 foot north from the south face of the east headwall, a painted chiseled triangle.	827.274
USC&GS BM W 204	In Howard County, about 1.0 mile south of <u>Greentown</u> , 1.0 mile south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to an east-west crossroad (county road 100 S.), in the southwest one-quarter of the crossroads, 45 feet south from the center line of the highway, set in top of the north end of the west concrete headwall of a 16-inch pipe culvert under the highway, about 0.5 foot below the highway, a standard USC&GS disk, stamped "W 204, 1946."	804.687
ISHC BM HOW G 2	In Howard County, about 1.5 miles southeast of <u>Greentown</u> , 1.5 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to the State Road 213 5-span concrete bridge over Wildcat Creek, set in top of the south end of the west concrete guardrail base, 17.2 feet west from the center line of the highway, 0.6 foot above the highway, 0.4 foot north from the south face of the west concrete guardrail base, 0.2 foot east from the east face of the west concrete guardrail, a standard Indiana State Highway Commission bronze bench mark tablet, stamped "HOW G 2."	829.786

<u>Mark</u>		<u>Elevation Feet</u>
USGS RM #5 GREENTOWN	In Howard County, about 1.5 miles south of <u>Greentown</u> , 1.5 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to the State Road 213 5-span concrete bridge over Wildcat Creek, set in top of the south end of the east concrete guardrail base of the bridge, 17.5 feet east from the center line of the highway, 0.7 foot above the road, 0.4 foot north from the south face of the east concrete guardrail base, 0.25 foot west from the west face of the east concrete guardrail, a chiseled square.	829.734
USGS RM #6 GREENTOWN	In Howard County, about 1.5 miles south of <u>Greentown</u> , 1.5 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to the State Road 213 5-span concrete bridge over Wildcat Creek, set in top of the east concrete guardrail base of the bridge, 33.5 feet north from the south face of the east concrete guardrail, 14.5 feet east from the center line of the highway, 0.7 foot above the highway, 0.25 foot west from the northwest corner of the second concrete guardrail pillaster on the east guardrail from the south end of the bridge, a chiseled square.	802.902
TBM WC 94	In Howard County, about 1.8 miles south of <u>Greentown</u> , 1.8 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to a gravel T-road west (county road 180 S.) and a gravel drive leading east to the Eastern Howard County Sanitary Land Fill, set in top of the east leg of an "L" shaped concrete headwall of an 18-inch pipe culvert under the T-road west, 25.5 feet west from the center line of the highway, 25.5 feet north from the center line of the T-road west, 1.8 feet south from the north face of the headwall, about 1.0 foot below the center line of the highway, a painted chiseled triangle.	830.808

<u>Mark</u>		<u>Elevation Feet</u>
USC&GS BM V 204	In Howard County, about 2.0 miles south of <u>Greentown</u> , 2.0 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to an east-west crossroad (county road 200 S.), in the northwest one-quarter of the crossroads, 51 feet north from the center line of the east-west road, 38 feet west from the centerline of the highway, 3.0 feet east from a power pole #25-043, 2.3 feet north from a highway right-of-way marker post, 1.0 foot east from a fence line, about level with the center line of the highway, set in top of a concrete post projecting 0.2 foot above ground, a standard USC&GS disk, stamped "V 204, 1946."	843.443
USC&GS BM U 204	In Howard County, about 3.0 miles southeast of <u>Greentown</u> , 3.0 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to an east-west crossroad (county road 300 S.), in the southwest one-quarter of the crossroads, 50 feet south from the center line of the highway, set in top of the north end of the west concrete headwall of a twin 24-inch pipe culvert under the highway, 1.3 feet south from the north face of the headwall, about level with the center line of the highway, a standard USC&GS disk, stamped "U 204, 1946."	845.510
TBM WC 102	In Howard County, about 3.2 miles southeast of <u>Greentown</u> , 3.0 miles south along State Road 213 from its junction with U. S. Highway 35 and State Road 22 in Greentown to an east-west crossroad (county road 300 S.), thence 0.75 mile east, set in the south side of a power pole, 0.05 mile west of the junction of county road 980 E., 17.5 feet north from the center line of the road, 1.5 feet south from a fence line, 0.6 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 102, 1962."	849.410

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 95	In Howard County, about 0.6 mile west of <u>Jerome</u> , 0.75 mile generally south along county road 1000 E. from its junction with county road 150 S. in Jerome to a gravel T-road west (county road 200 S.), thence 0.2 mile west to a field entrance north, set in the east side of a lone 32-inch shagbark hickory tree, 20 feet south from the center line of the east-west road, 15 feet west from the extended center line of the field entrance, 3.5 feet south from a fence line, 1.0 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 95, 1962."	843.563
BM HOW 30	In Howard County, about 0.1 mile south of <u>Jerome</u> , 0.05 mile generally southwest along county road 1000 E. from the church in Jerome to an one-span steel truss bridge over Wildcat Creek, set in top of the west concrete wingwall of the bridge, 11 feet northwest from the center line of the road, 5 feet west from the east face of the west wingwall, 1.35 feet south from the north face of the west wingwall, about level with the top of the bridge floor, a chiseled square.	830.805
TBM WC 96	In Howard County, about 0.1 mile south of <u>Jerome</u> , 0.05 mile generally southwest along county road 1000 E. from the church in Jerome to an one-span steel truss bridge over Wildcat Creek, set in top of the south concrete wingwall of the bridge, 9.5 feet southeast from the center line of the road, 1.6 feet south from the south end of the southwest end of the southeast truss of the bridge, 0.4 foot south from the north face of the wingwall, 0.3 foot east from the west face of the wingwall, a chiseled square.	830.775

Mark

Elevation Feet

TBM
WC 97

In Howard County, about 1.0 mile south of Jerome, 0.1 mile generally southwest along county road 1000 E. from the church in Jerome to T-junction of county road 1050 E., thence 0.85 mile generally southeast along a winding gravel road to a T-road west (county road 250 S.) and a farm on the east side of the road, set in the west side of a 24-inch maple tree in front lawn of the farm house, 31.5 feet east from the center line of the north-south road, 27 feet south from the extended center line of the T-road west, 17.5 feet south from the center line of the driveway, 0.5 foot above ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 97, 1962."

850.402

TBM
WC 101

In Howard County, about 1.1 miles northwest of Phlox, 1.0 mile north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to an east-west crossroad (county road 300 S.), thence 0.4 mile west, set in the north side of a wooden fence corner post, 28.6 feet northeast and across the driveway from a mailbox, 19 feet east from the center line of a driveway leading south to the T. C. Dewitt farm, 18 feet south from the center line of the road, 0.8 foot above the ground, a railroad spike driven through an aluminum tag, stamped "TBM WC 101, 1962."

850.220

<u>Mark</u>		<u>Elevation Feet</u>
USGS RM #1 JEROME	In Howard County, about 1.5 miles north of <u>Phlox</u> , 1.5 miles north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to a 3-span concrete bridge over Wildcat Creek, set in top of the northwest concrete wingwall of the bridge, 15.1 feet west from the center line of the road, 0.9 foot west from the west face of the west concrete wingwall, 0.8 foot above the road, 0.6 foot northeast from the southwest face of the wingwall, a standard U. S. Geological Survey bronze reference mark tablet, stamped "GAGING STATION."	844.108
USGS RM #2 JEROME	In Howard County, about 1.5 miles north of <u>Phlox</u> , 1.5 miles north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to a 3-span concrete bridge over Wildcat Creek, set in top of the northeast concrete wingwall of the bridge, 17.7 feet east from the center line of the road, 3.6 feet east from the east face of the east concrete guardrail base, 0.7 foot above the road, 0.6 foot northeast from the southwest face of the wingwall, a standard U. S. Geological Survey bronze reference mark tablet, stamped "GAGING STATION."	844.003 NGVD'29 Updated Description Page 57 843.595 NAVD 88
USGS RM #3 JEROME	In Howard County, about 1.5 miles north of <u>Phlox</u> , 1.5 miles north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to a 3-span concrete bridge over Wildcat Creek, set in top of the northwest corner at the north end of the west concrete guardrail base of the bridge, 14 feet west from the center line of the road, 1.6 feet above the road, 1.55 feet north from the most northern aluminum guardrail past of the west guardrail, a chiseled square.	844.951

Mark
TBM
WC 98

In Howard County, about 1.6 miles northeast of Phlox, 1.0 mile north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to an east-west crossroad (county road 300 S.), thence 0.8 mile east to a gravel T-road northwest (county road 1150 E.), thence 0.8 mile generally north to a 10-foot concrete arch culvert under the road, about 0.05 mile south of a farm house on the east side of the road, set in top of the north end of the east concrete headwall of the culvert, 11.5 feet east from the center line of the road, 2.0 feet above the road, 0.8 foot south from the north face of the headwall, 0.8 foot west from the east face of the headwall, a painted chiseled triangle.

Elevation Feet

851.506

TBM
WC 100

In Howard County, about 1.0 mile northeast of Phlox, 1.0 mile north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to an east-west crossroad (county road 300 S.), thence 0.5 mile east to a multi-span concrete bridge over Mud Creek, set in top of the west end of the north concrete guardrail base of the bridge, about 59 feet east from the center line of a gravel T-road south (county road 1120 E.), 11.5 feet north from the center line of the east-west road, 0.8 foot above the road, 0.35 foot east from the west face of the north guardrail base, a painted chiseled triangle.

842.667

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 99	In Howard County, about 1.2 miles northeast of <u>Phlox</u> , 1.0 mile north along county road 1100 E. from its junction with State Road 26 at crossroads in Phlox to an east-west crossroad (county road 300 S.), thence 0.6 mile east to the Omer E. Brown residence on the south side of the road, about 1.0 mile west of a concrete bridge over Wildcat Creek, set in the northwest root of a 28-inch maple tree, 39 feet east from the center line of the driveway leading to the house, 22 feet south from the center line of the road, 20 feet west from the center line of the drive leading to a three car garage, about 1.5 feet below the level of the lawn, about 1.0 foot above the center line of the road, a railroad spike driven through an aluminum tag, stamped "TBM WC 99, 1962."	842.155
BM HOW 31	In Howard County, about 1.3 miles northeast of <u>Phlox</u> , 1.0 mile north along county road 1100 E. from its junction with State Road 26 at the crossroads in Phlox to an east-west crossroad (county road 300 S.), thence 0.7 mile east to a 3-span concrete bridge over Wildcat Creek, set in top of the west end of the south concrete guardrail base of the bridge, 12 feet south from the center line of the road, 0.8 foot above the road, 0.55 foot east from the west face of the south guardrail base, a standard Indiana Flood Control and Water Resources Commission bronze bench mark tablet, stamped "HOW 31, 1961."	842.362

HOWARD COUNTY

September 20, 1962

WILDCAT CREEK

The elevations of TBM WC 1 and TBM WC 2, published previously in the line dated December 28, 1958, on page 7, have been revised during the leveling of September 20, 1962.

<u>Mark</u>		<u>Elevation Feet</u>
TBM WC 1	In Howard County, about 1.1 miles southwest of <u>Vermont</u> , 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.2 mile south to a field entrance road west, set in top of the south headwall of a 10-inch culvert under the field entrance road, 1.7 feet west of the east end of the culvert, 1.0 foot above the road, 0.5 foot north from the south edge of the culvert, a chiseled triangle.	809.634
TBM WC 2	In Howard County, about 1.2 miles southwest of <u>Vermont</u> , 0.35 mile south along a paved road from its crossing of the New York, Chicago and St. Louis Railroad in Vermont to a crossroad, thence 1.2 miles generally west to a north-south crossroad, thence 0.35 mile south, set in the west side of an 8-inch elm tree, 21 feet east from the center line of the road, 1.0 foot north of a thorn tree used as fence corner, 1.0 foot above the road, a railroad spike driven through a brass plate, stamped "TBM WC 2, 1956."	803.163

HOWARD COUNTY

WILDCAT CREEK

1985-1987 Control Maintenance Program:

The following elevations were determined from 1985 through 1987 by leveling from National Geodetic Survey, and Department of Natural Resources bench marks.

Second Order Levels were run with automatic levels with parallel plate micrometers and invar-steel rods. All level circuits closed within the allowable limits for Second Order Class II levels. Marks labeled "third order" were established with automatic levels and "Chicago" rods.

All Levels were adjusted to the National Geodetic Vertical Datum of 1929.

HOWARD COUNTY
WILDCAT CREEK

1985-1987 Control
Maintenance Program

<u>Mark</u>		<u>Elevation Feet</u>
DNR BM HOW 33 1985	In Howard County, about 1.5 miles east of Burlington, Russiaville Quad., on Sec. line between Sect's. 25 and 36, T.24N., R.1E. At the S.R. 22 Bridge over Wildcat Creek. Set in the top of the southwest concrete headwall of the bridge; 23.5 feet south from the center line of roadway; 4.0 feet east from the west end of headwall; and level with the roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 33, 1985."	724.793
DNR BM HOW 4 1985	In Howard County, about 3.0 miles northwest of New London, Russiaville Quad., N.1/2 Sec. 4, T.23n., R.1E., at the 950 W. Road Bridge over Wildcat Creek. Set in top of the northeast concrete headwall of bridge, 15.0 feet east from the center line of the roadway; 1.6 feet south from the north end of headwall; and 0.3 foot above roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 4 RESET, 1985."	747.514
DNR TBM 114 WC 1985	In Howard County, Russiaville Quad., about 3.0 miles northwest of New London, at the 950 W. Road Bridge over Wildcat Creek. Set in the top of the southwest concrete wingwall of the bridge; 14.0 feet west from the center line of the bridge; 3.5 feet south from the north end of wingwall; and 0.7 foot below top of curbing. A chiseled triangle.	742.12 (Third Order)

<u>Mark</u>		<u>Elevation Feet</u>
DNR BM HOW 9 RESET 1985	In Howard County, about 2.5 miles west of Kokomo, Kokomo West Quad., SE1/4, Sec. 32, T.24N., R.3E., at the 440 W. Road Bridge over Wildcat Creek. Set in the top at the south end of the west concrete curbing of bridge; 12.0 feet west from the center line of the bridge; 2.4 feet north from the south end of the curbing; and 0.8 foot above roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 9 RESET, 1985."	764.471
DNR BM HOW 11 RESET 1985	In Howard County, about 1.0 mile west of Kokomo, Kokomo West Quad., on Sec. line between Sec. 3 and 4, T.23N., R.3E., at the 300 W. Road Bridge over Wildcat Creek. Set in the top of the northwest concrete wingwall of the bridge; 17.5 feet west from the center line of roadway, 0.5 foot south from the north face of headwall, 0.5 foot north from south face of headwall; about level with roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 11, RESET 1985."	782.580
DNR TBM 113 WC 1985	In Howard County, about 2.0 miles west of Kokomo, at the County 300 W. Road Bridge over Wildcat Creek. Set in the top of the northeast concrete wingwall of the bridge; 17.5 feet east from the center line of bridge; and 0.5 foot below the curbing of bridge. A painted chiseled triangle.	782.554
DNR BM HOW 12 RESET 1985	In Howard County, Kokomo West Quad., near the west edge of Kokomo, on the between line between Sec. 34 & 35, T.24N., R.3E., at the 200 W. Rd Bridge over Wildcat Creek. Set in the top of the northeast concrete wingwall of bridge; 17 feet east from the center line of roadway, (22 W. Rd); 0.6 foot northwest from the southeast face of wingwall; and 0.5 foot above the roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 12 RESET, 1985."	793.671

<u>Mark</u>		<u>Elevation Feet</u>
DNR BM HOW 20 RESET 1985	In Howard County, at Kokomo, Kokomo East Quad. at the Ohio Street Bridge over Wildcat Creek. Set in the top at the north end of the east concrete guardrail base of bridge; 24.0 feet east from the centerline of Ohio Street; 2.7 feet south from the north end of concrete guardrail base; and 0.4 foot above the sidewalk. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 20 RESET, 1985."	803.358
DNR TBM 112 WC 1985	In Howard County, at Kokomo, Kokomo East Quad. at the south Ohio Street Bridge over Wildcat Creek. Set in the top of the N.W. concrete wingwall of bridge; 24.7 feet west from the center line of bridge; 1.8 feet south from north end of wingwall; and 0.6 foot above sidewalk. A chiseled triangle.	803.412
DNR BM HOW 34 1985	In Howard County, at Kokomo, Kokomo East Quad. at the east Carter Street Bridge over Wildcat Creek. Set in the top of the southwest concrete wingwall of the bridge; 14.5 feet south from the center line of roadway; 0.6 foot northwest from the southeast face of wingwall; and about level with roadway. An Indiana Department of Natural Resources bench mark tablet, stamped "HOW 34, 1985."	807.349
DNR TBM 111 WC 1985	In Howard County, at Kokomo, Kokomo East Quad. at the east Carter Street Bridge over Wildcat Creek. Set in the top of the S.W. concrete wingwall of bridge; 15.0 feet south from the center line of bridge; 0.8 foot S.E. from N.W. face of wingwall; and level with the roadway. A chiseled square.	807.31 (Third Order)
ISHC BM Stamping illegible	In Howard County, Kokomo East Quad., about 3 miles east of Kokomo at C.R. 400 E. Bridge over Wildcat Creek. Set in top of S.E. concrete wing-wall of bridge, about level with road. A Indiana State Highway BM tablet, stamping illegible.	817.735

Howard County
Wildcat Creek and Tributaries
Vicinity of Greentown - 1998 Levels and GPS

Mark

Elevation in Feet

INDOT BM HOW G2	In Howard County, Greentown Quad, in the SE ¼ of Sec. 9, T23N, R5E, 2 nd PM. About 1.5 miles south of Greentown at the State Highway 213 bridge over Wildcat Creek in the southwest corner of the bridge. 17.5 ft. west of the centerline of SR 213; 0.15 ft. east of the east face of the concrete guardrail; 0.4 ft. north of the south end of the concrete curb; about 0.6 ft. above the level of the bridge deck; A standard Indiana State Highway Commission benchmark tablet stamped "HOW G 2" Elevation by 2 nd order levels 829.786 feet NGVD 1929 Elevation by 2 nd order levels 829.377 feet NAVD 1988
IDNR BM HOW 50 1998	In Howard County, Greentown Quad, in the SW ¼ of Sect. 11, T23N, R5E, 2 nd PM. About 2 miles southeast of Greentown at the County Road 1030 East bridge over Wildcat Creek, in the northwest corner of the bridge. 13.0 ft. west of the centerline of CR 1030 E.; 4.6 ft. southeast of the north corner of the concrete wingwall; 0.8 ft. west of the west face of the concrete curb; about 0.8 ft. below the top of the curb. Set in the top of the wingwall, a standard IDNR Division of Water control station tablet stamped "HOW 50 1998" Elevation by GPS 834.501 feet NAVD 1988
USGS RM2 JEROME	In Howard County, Greentown Quad, in the SW ¼ of Sec.13, T23N, R5E, 2 nd PM. About 3.5 miles southeast of Greentown at the County Road 1100 East bridge over Wildcat Creek, in the northeast corner of the bridge. 17.5 ft. east of the centerline of CR 1100E.; 3.5 ft. east of the east edge of the concrete guardrail base; 0.6 ft. southwest of the northeast face of the concrete wingwall; 0.5 feet above the level of the concrete bridge deck. Set in the top of the concrete wing-wall, a standard USGS gaging station reference mark tablet – not stamped. Elevation by 2 nd . Order levels 844.003 feet NGVD 1929 Elevation by 2 nd . Order levels 843.595 feet NAVD 1988
IDNR TBM HOW 51 1998	In Howard County, Greentown Quad, in the NW ¼ of Sec. 24, T23N, R5E, 2 nd PM. About 3 miles southeast of Greentown at the County Road 300 South bridge over Mud Creek, in the southwest corner of the bridge. 11.6 ft. south of the centerline of CR 300 S.; 6.6 ft. northeast of power pole number D2/3 (with riser box); 0.5 ft. east of the west face of the curb; 0.5 north of the south face of the curb; about 0.7 ft. above the level of the road. A PK nail set in the top of the concrete curb. Elevation by 3 rd order levels 842.627 feet NGVD 1929 Elevation by 3 rd order levels 842.219 feet NAVD 1988

Howard County
Wildcat Creek and Tributaries
Vicinity of Greentown - 1998 Levels and GPS

Mark

		<u>Elevation in Feet</u>
INDOT BM HOW G1	In Howard County, Greentown Quad, in the SE ¼ of Sec 24, T23N, R5E, 2 nd PM. About 4.5 miles southeast of Greentown at the State Highway 26 bridge over Mud Creek, in the northwest corner of the bridge. 15.4 ft. north of the centerline of SR 26; 4.8 ft. east of the west end of the concrete guardrail; 0.4 ft. south of the north face of the concrete guardrail; about 2.9 ft. above the level of the concrete bridge deck. Set in the top of the concrete guardrail, a standard INDOT benchmark tablet stamped "HOW G1"	Elevation by GPS 848.601 feet NAVD 1988
IDNR TBM HOW 52 1998	In Howard County, Greentown Quad, in the SE ¼ of Sec 26, T23N, R5E, 2 nd PM. About 5.2 miles southeast of Greentown at the County Road 1100 E. bridge over Mud Creek, set in the northwest corner of the bridge. 8.5 feet west of the centerline of CR 1100 E.; 0.8 ft. northeast of the southeast face of the concrete wing-wall; 25.3 ft. south of the end of the guard rail; and about level with the road. Set in the top of the concrete wingwall, a PK nail.	Elevation by GPS 842.741 feet NAVD 1988
IDNR TBM HOW 53 1998	In Howard County, Greentown Quad, in the SE ¼ of Sec 27, T23N, R5E, 2 nd PM. About 5 miles south-southeast of Greentown at the County Road 980 E. bridge over Mud Creek, set in the northeast corner of the bridge. 10.0 ft. east of the centerline of CR 980 E.; 1.5 ft. west of the east face of the concrete bridge deck; 1.0 ft. south of and about level with the north edge of the bridge deck. A PK nail.	Elevation by GPS 845.078 feet NAVD 1988
IDNR BM HOW 54 1998	In Howard County, Greentown Quad, in the SE ¼ of Sec 27, T23N, R5E, 2 nd PM. About 5.0 miles south of Greentown at the County Road 500 S. bridge over Mud Creek, in the northeast corner of the bridge. 14.5 ft. north of the centerline of CR 500 S.; 1.2 ft. south of the northwest face of the concrete wingwall; 2.6 ft. southwest of the northeast face of the wingwall; 6.5 ft. northeast of the northeast corner of the concrete bridge deck. Set in the top of the northeast wingwall, a standard IDNR Division of Water control station tablet stamped "HOW 54 1998"	Elevation by GPS 847.764 feet NAVD 1988